	Application No.	Applicant(s)
Notice of Allowability	10/001,218	INGRAM ET AL.
	Examiner	Art Unit
	Tekchand Saidha	1652
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS HOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
. X This communication is responsive to amendment filed 7/20/2004.		
2. ⊠ The allowed claim(s) is/are <u>1,6-10,15-17 and 19-22</u> .		
3. The drawings filed on are accepted by the Examiner.		
Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application No cuments have been received in this communication to file a reply received.	national stage application from the
A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) . Notice of References Cited (PTO-892) . Notice of Draftperson's Patent Drawing Review (PTO-948) . Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendn	ė

Application/Control Number: 10/001,218

Art Unit: 1652

Notice of Allowability

- 1. The terminal disclaimer filed on July 20, 2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 5,482,846 and 5,916,787 has been reviewed and is accepted. The terminal disclaimer has been recorded.
- 2. Applicants' amendment after final filed July 20 2004, is acknowledged. Claims 1, 6-10, 15-17 & 19-22 are pending and under consideration in this examination.
- 3. Claims 1, 6-10, 15-17 & 19-22 are allowed.
- 4. The following is an Examiner's statement of reasons for allowance:

The application provides *B. polymyxa* and *B. subtilis* cells transformed with (a) alcohol dehydrogenase (ADHII) and pyruvate decarboxylase (PDC) genes from *Zymomonas mobilis* and (b) a heterologous DNA encoding a protein involved in transport of mono and oligosaccharides into the host cell.

The expression of these heterologous genes results in the production of enzymes which redirect the metabolism of the transformed hosts such that ethanol is produced as a primary fermentation product and thereby reduce accumulation of acidic metabolic products.

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No prior art reference(s) of record teach(es), suggest(s) or provide motivation to one of ordinary skill in the art of enzymology/molecular biology to make the invention obvious.

Any comments considered necessary by applicant must be submitted no later than the payments of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tekchand Saidha (Ph.D.) whose telephone number is (571) 272-0940. The examiner can normally be reached on Monday-Friday from 8:15 am to 4:45 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy, can be reached at (571) 272-0928. The fax phone number for this Group in the Technology Center is 703 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is 571 272-1600.

Jesoudy Tekchand Saidha

Primary Examiner, Art Unit 1652

Recombinant Enzymes, 2C70 Remsen Bld.

400 Dulany Street, Alexandria, VA

Telephone: (571) 272-0940

August 10, 2004